	Application No.	Applicant(s)
Notice of Allowability	10/685,771	BINGHAM ET AL.
	Examiner	Art Unit
	Timothy C. Vanoy	1754
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to the amendment filed on Mar. 30, 2006.		
2. The allowed claim(s) is/are <u>1-22</u> .		
3. Acknowledgment is made of a claim for foreign priority unally all b) Some* c) None of the:  1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	been received. been received in Application cuments have been received	on No d in this national stage application from the
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") mus  (a) including changes required by the Notice of Draftspers  1) hereto or 2) to Paper No./Mail Date  (b) including changes required by the attached Examiner's Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the state of the sheet.	son's Patent Drawing Review s Amendment / Comment or .84(c)) should be written on t	in the Office action of he drawings in the front (not the back) of
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	SIT OF BIOLOGICAL MATI FOR THE DEPOSIT OF BIO	ERIAL must be submitted. Note the DLOGICAL MATERIAL.
Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0	6. ☐ Interview S Paper No.	formal Patent Application (PTO-152) ummary (PTO-413), /Mail Date Amendment/Comment
Paper No./Mail Date  4.  Examiner's Comment Regarding Requirement for Deposit of Biological Material		Statement of Reasons for Allowance  STANLEY S. SHITEDMAN  SUPERVISOR  TECHNOLOG: CENTRE 1700

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## **REASONS FOR ALLOWANCE**

The following is an examiner's statement of reasons for allowance: U. S. Patent 2,534,533 in col. 4 line 1 to col. 5 line 17 describes the same base process for manufacturing hydrogen gas via the reaction between metal hydride and water (please see reaction (5) set forth in col. 4 in U. S. Patent 2,534,533) by supplying a container; adding water to the container and adding the metal hydride reactant to the water (please see col. 5 lines 14-16 in U. S. Patent 2,534,533) as embraced in the scope of at least all of the applicants' independent claims, however all of the independent claims are limited to the step of increasing the pressure of the liquid within the container (applicants' claims 1 and 10) or increasing the pressure of the water in the container (applicants' claim 18), which distinguishes the claims from the generic process for manufacturing hydrogen gas via the reaction between metal hydride and water described in col. 4 line 1 to col. 5 line 17 in U. S. Patent 2,534,533.

Further, there is nothing in U. S. Patent 2,534,533 teaching or suggesting that the reactant should be rendered chemically non-reactive and that the non-reactive reactant is combined with the second fluid stream, as set forth in at least applicants' independent claim 10.

Further, there is nothing in U. S. patent 2,534,533 teaching or suggesting that a fluid stream carrying the metal or metal hydride be metered into the container, as set forth in at least applicants' independent claim 18.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance.".

The applicants' amendment filed on Mar. 30, 2006 has been entered.

U. S. Patent 7,001,681 B2 disclosing a method for generating hydrogen gas by reacting water vapor with a substantially non-fluid substance is made of record.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Timothy C. Vanoy whose telephone number is 571-272-8158. The examiner can normally be reached on Mon-Fri 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman, can be reached on 571-272-1358. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Timothy C Vanoy Timothy C Vanoy Patent Examiner Art Unit 1754

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